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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,313	04/06/2001	Oswaldo da Costa e Silva	16313-0032	6571
29052 7	7590 04/30/2002			
	SUTHERLAND ASBILL & BRENNAN LLP 999 PEACHTREE STREET, N.E.	EXAMINER		
ATLANTA, G	,		COLLINS, CYNTHIA E	
			ART UNIT	PAPER NUMBER
			1638	$\mathcal{J}$
			DATE MAILED: 04/30/2002	δ

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/828,313	E SILVA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cynthia Collins	1638			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on <u>06 April 2001</u> .					
2a) This action is <b>FINAL</b> . 2b) Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-31</u> are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)		y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10 and 14-20, drawn to a transgenic plant cell, a seed, an isolated PKSRP coding nucleic acid, a recombinant expression vector, and a method of producing a transgenic plant, classified in class 536, subclass 23.6, for example.
- II. Claim 11, drawn to an agricultural product, classified in class 426, subclass 623, for example.
- III. Claims 12-13, drawn to an isolated PKSRP protein, classified in class 530, subclass 350, for example.
- IV. Claim 21-26, drawn to a method of decreasing stress tolerance of a plant by modifying the expression of PKSRP in a nontransgenic plant, classified in class 800, subclass 276, for example.
- V. Claim 21-25 and 27-30, drawn to a method of decreasing stress tolerance of a plant by modifying the expression of PKSRP in a transgenic plant, classified in class 800, subclass 288, for example.
- VI. Claims 21-26 and 31, drawn to a method of decreasing stress tolerance in a plant by inhibiting the expression of PKSRP in a nontransgenic plant by administration of an antisense molecule, classified in class 800, subclass 286, for example.
- VII. Claims 21-25, 27 and 31, drawn to a method of decreasing stress tolerance in a plant by inhibiting the expression of PKSRP in a transgenic plant by

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administration of an antisense molecule, classified in class 800, subclass 286, for example.

For inventions I-VII above, restriction to one of inventions (A)-(M) is also required under 35 USC 121. Therefore, upon election of any of Inventions I-VII, one of inventions (A)-(M) must also be elected.

- (A) PK-6, SEQ ID NOS:14 and 27
- (B) PK-7, SEQ ID NOS:15 and 28
- (C) PK-8, SEQ ID NOS:16 and 29
- (D) PK-9, SEQ ID NOS:17 and 30
- (E) CK-1, SEQ ID NOS:18 and 31
- (F) CK-2, SEQ ID NOS:19 and 32
- (G) CK-3, SEQ ID NOS:20 and 33
- (H) MPK-2, SEQ ID NOS:21 and 34
- (I) MPK-3, SEQ ID NOS:22 and 35
- (J) MPK-4, SEQ ID NOS:23 and 36
- (K) MPK-5, SEQ ID NOS:24 and 37
- (L) CPK-1, SEQ ID NOS:25 and 38
- (M) CPK-2, SEQ ID NOS:26 and 39

The inventions are distinct, each from the other because of the following reasons:

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Inventions (A)-(M) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions represent structurally different polynucleotides and the polypeptides they encode. Therefore, where structural identity is required, such as for expression or hybridization, the different sequences have different effects.

Inventions I-VII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions and different effects.

The transgenic plant cell, seed, and isolated PKSRP coding nucleic acid of Invention I, the agricultural product of Invention II, and the isolated PKSRP protein of Invention III are biologically, chemically, and structurally distinct from one another, and can be used in different methods, such as a hybridization method for the nucleic acid, an animal feeding method for the agricultural product, and an immunoassay method for the protein.

The method of Invention I requires transformation of a plant cell and regeneration of a transgenic plant resulting in the production of a transgenic plant, which is not required by the methods of Inventions IV-VII. The method of Invention IV requires modifying the expression of PKSRP in a *nontransgenic* plant resulting in *decreased* stress tolerance in the plant, which is not required by the methods of Inventions I or V-VII. The method of Invention V requires modifying the expression of PKSRP in a *transgenic* plant resulting in *decreased* stress tolerance in the plant, which is not required by the methods of Inventions I, IV or VI-VII. The method of

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Invention VI requires inhibiting the expression of PKSRP in a *nontransgenic* plant by administration of an antisense molecule resulting in decreased stress tolerance in the plant, which is not required by the methods of Inventions I, IV-V and VII. The method of Invention VII requires inhibiting the expression of PKSRP in a *transgenic* plant by administration of an antisense molecule resulting in decreased stress tolerance in the plant, which is not required by the methods of Inventions I and IV-VI.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, their recognized divergent subject matter, and the requirement for different areas of search, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Remarks

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Collins whose telephone number is (703) 605-1210. The examiner can normally be reached on Monday-Friday 8:45 AM -5:15 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

CC April 23, 2002

> PHUONG 1.BUT PRIMARY EXAMINER

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